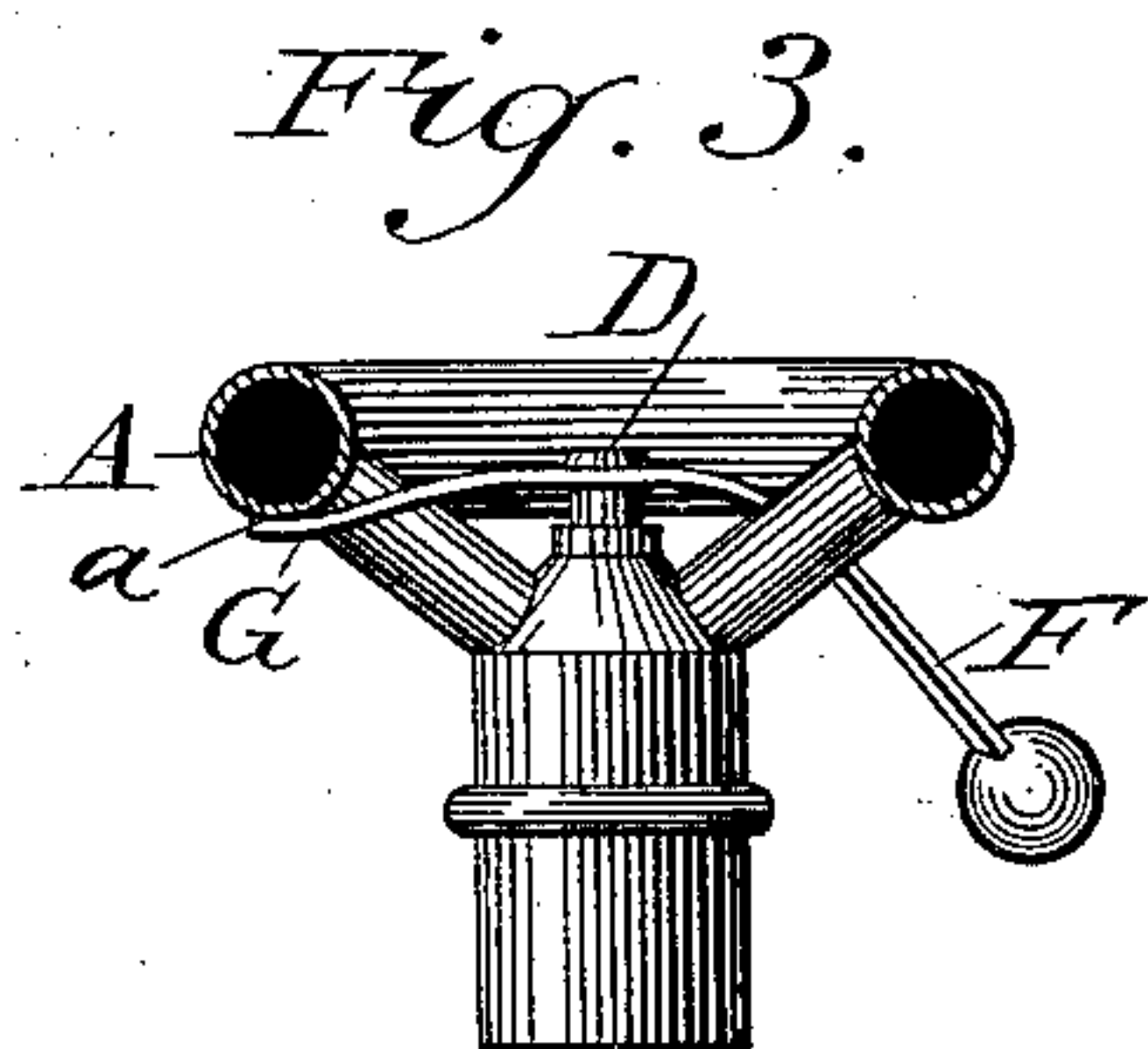
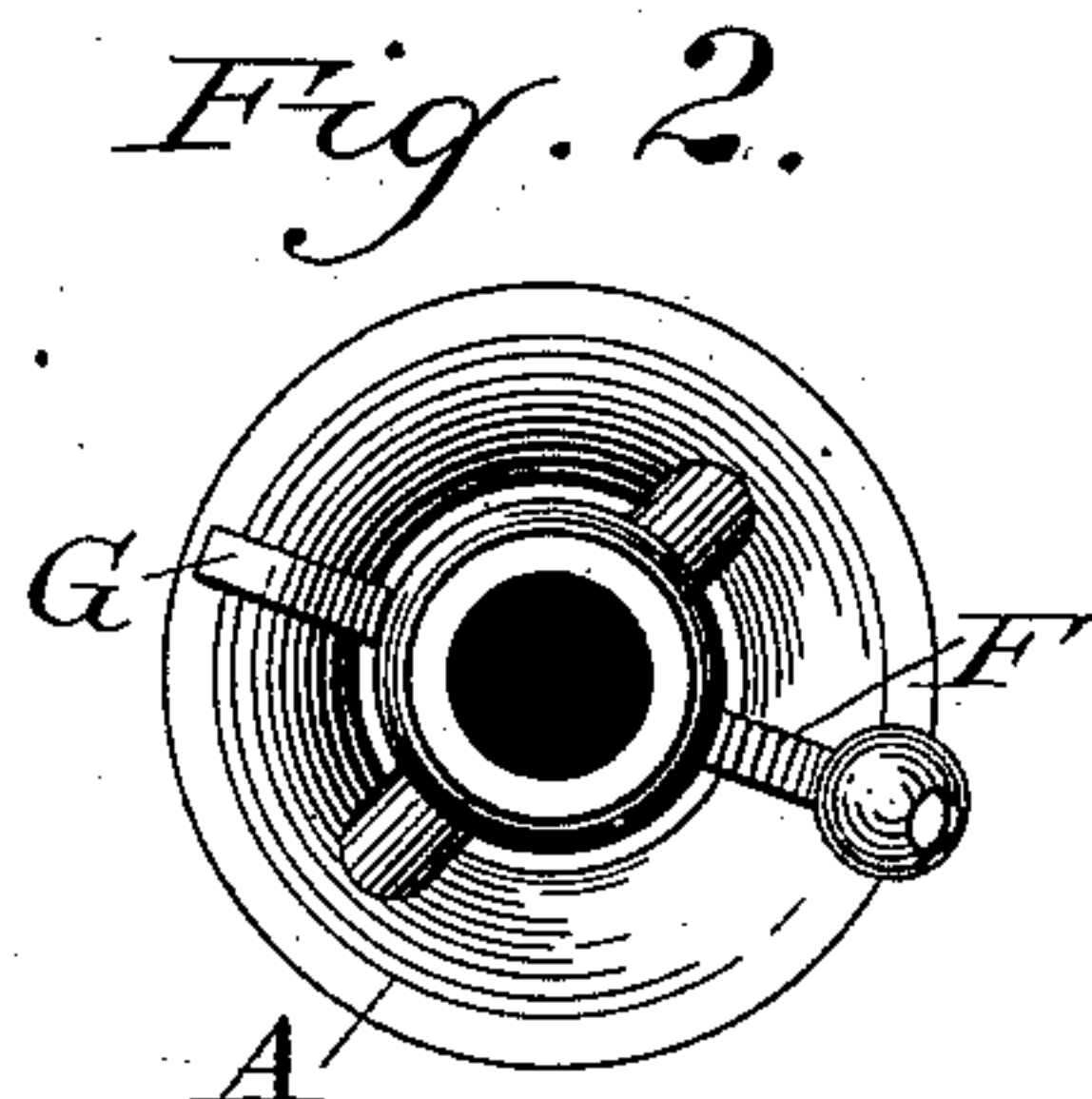
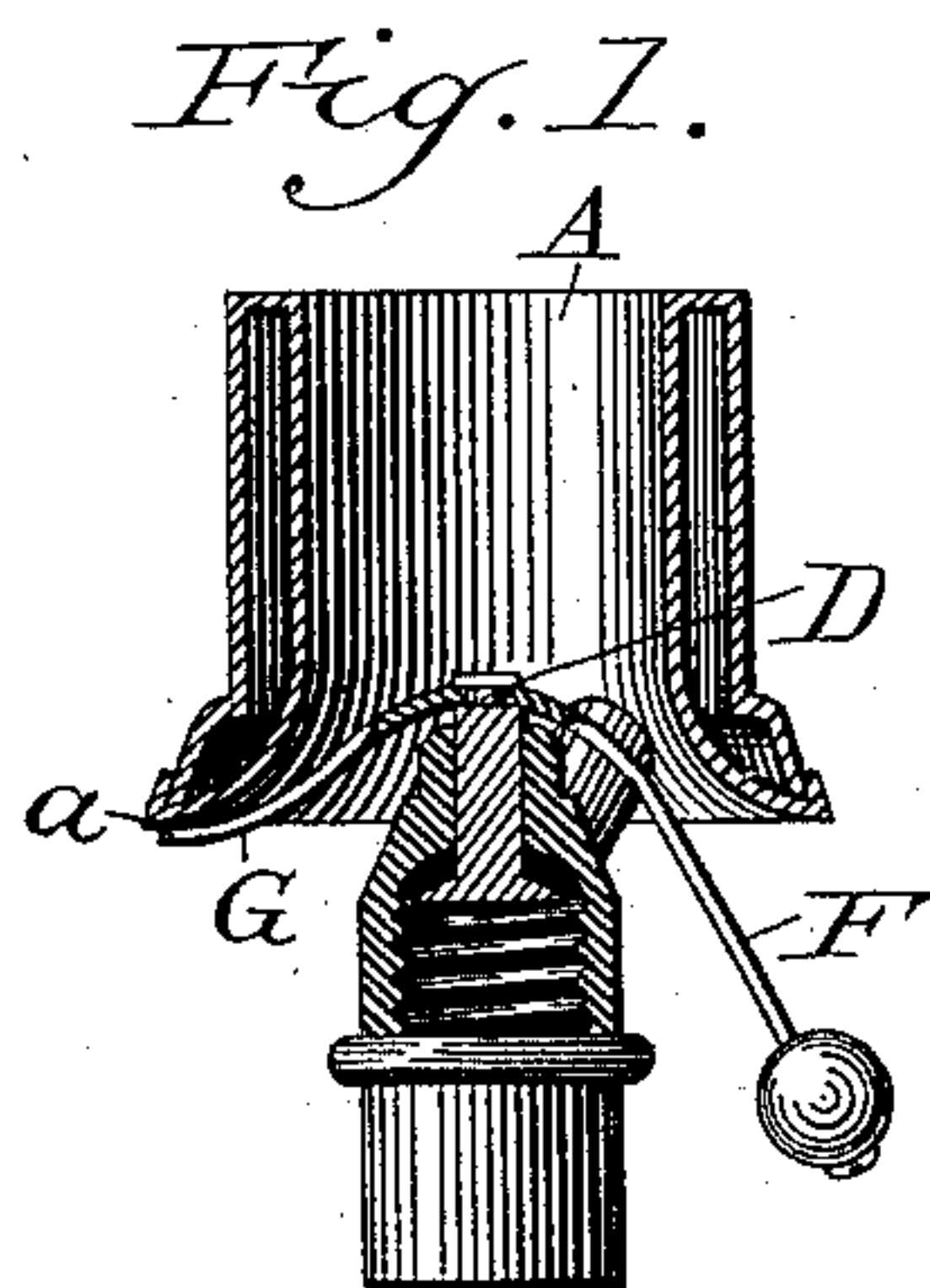


(No Model.)

E. F. GENNERT.  
ARGAND GAS BURNER.

No. 358,344.

Patented Feb. 22, 1887.



Witnesses:  
C. F. Kelley,  
John N. McLean

Inventor:  
Emil F. Gennert

# UNITED STATES PATENT OFFICE.

EMIL F. GENNERT, OF BROOKLYN, NEW YORK.

## ARGAND GAS-BURNER.

SPECIFICATION forming part of Letters Patent No. 358,344, dated February 22, 1887.

Application filed February 5, 1886. Serial No. 190,909. (No model.)

*To all whom it may concern:*

Be it known that I, EMIL F. GENNERT, a citizen of the United States, and a resident of Brooklyn, county of Kings, and State of New York, have invented a new and useful Improvement in Levers for Argand and Ring Burners, of which the following is a specification.

My invention is an improvement on the Argand burner, for which Letters Patent No. 179,852 were granted to Elliott P. Gleason, of the city of New York, on the 18th day of July, 1876, and relates to the lever that is underneath the burner-shell, the use of which lever is to revolve the valve that regulates the flow of gas; and it consists in making the said lever and the spring for holding the same in place all of one piece of metal, the objects being to simplify the mode of manufacture, and thereby effect a saving in the cost of materials and labor; also, to provide a more substantial lever and spring. These objects I attain in the manner shown by the drawings herewith, which form a part of this specification, wherein—

Figure 1 is a side view of an Argand burner with the annular chamber and my lever and spring shown in central section. Fig. 2 is an inverted plan view of the same. Fig. 3 is a side view of a ring-burner, the annular chamber shown in central section.

Similar letters designate like parts in the several figures.

In the manufacture of the Argand burners, covered by Patent No. 179,852, above referred to, the lever F and spring G are separate pieces, which are joined one on the top of the other by the riveting to the valve-stem D, requiring two sets of punches and dies, two operations of punching, two of bending, and two pieces to handle and hold in place while riveting. Fully half of this labor I avoid by forming the lever F so as to extend over

and past the valve-stem D until the other arm G, thus produced when bent, as shown at *a*, will impinge against the bottom of the annular chamber A, thus combining in one piece of metal the moderating or regulating lever F and the holding-spring G, the manufacture of which requires but one punch and die, one operation of punching and one of bending or forming, and but one piece to handle and hold while riveting to the valve-stem D. Correspondingly a great saving of material is effected, because but half the amount of scrap from punching is produced.

The combined lever and spring shown by Fig. 3 of the Patent No. 179,852, to which this is an improvement, it will be seen, extends only from the one side of the screw-valve D, and is defective in that if the lever should be accidentally bent down the spring would be carried out of place and rendered useless. In my improvement this cannot occur from bending the lever.

Having thus described my invention and the objects attained by it, what I claim as new, and desire to secure by Letters Patent of the United States, is—

The combination, with an Argand or ring gas-burner, of a regulating-valve, a central stem, D, connected therewith, and a combined lever and spring, F G, in one piece, attached to said stem and in contact with the under rim of the burner, substantially as described and set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 3d day of February, 1886.

EMIL F. GENNERT.

Witnesses:

C. F. KELLEY,  
W. C. GLEASON.